Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2021-01-29-83** **Date: 19-12-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"
Agency	:	Sri.G.Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/173/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-12-20
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	17-12-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2021-01-29-83** **Date: 18-12-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"
Agency	:	Sri.G.Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/173/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-12-20
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test	:	17-12-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2021-01-29-83 Date: 02-01-21
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"
Agency	:	Sri.G.Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/173/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-12-20
Sample Type /Size	:	Precast Cover Slab (100mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	29/12/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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QC ABSTRACT

NAME OF WORK: "Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	11 set /350-400 cum	382.78	22	22

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2021-01-29-83 **Date: 21-12-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No.04"
Agency	:	Sri.G Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W O/173/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-12-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	18-12-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.87	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.7	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-01-29-83** **Date: 15-01-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"
Agency	:	Sri.G.Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/173/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-12-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	18-12-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-01-29-83** **Date: 21-12-20**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"
Agency	:	Sri.G.Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/173/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	17-12-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-12-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	7875	8120	54.1	45.9	30-70
4	10 mm	3899	12019	80.1	19.9	10-35
5	4.75 mm	2588	14607	97.4	2.6	0-5
6	Pan	393	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2021-01-29-83 Date: 19-12-20
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"
Agency	:	Sri.G.Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/173/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-12-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-12-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	–

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-29-83** **Date: 31/12/2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"
Agency	:	Sri.G.Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/173/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	31/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Bottom Slab Concrete	M20	24/12/2020	31/12/2020	150.22 X 149.22 X 149.37	22415	8.944	411.4	18.4	18.3
2	Drain Bottom Slab Concrete	M20	24/12/2020	31/12/2020	151.16 X 150.04 X 150.31	22681	8.418	412.1	18.2	
3	Drain Bottom Slab Concrete	M20	24/12/2020	31/12/2020	150.06 X 150.16 X 150.51	22532	8.716	413.6	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-01-29-83
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"
Agency	:	Sri.G.Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/173/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/01/2021

Date: 04/01/2021

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	28/12/2020	04/01/2021	149.42 X 151.13 X 151.81	22583	8.944	426.9	18.9	18.9
2	Drain Side Wall Concrete	M20	28/12/2020	04/01/2021	151.54 X 150.14 X 149.86	22752	8.418	428.2	18.8	
3	Drain Side Wall Concrete	M20	28/12/2020	04/01/2021	151.80 X 151.26 X 149.19	22961	8.716	434.9	18.9	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

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Certificate No.: TC-55

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2021-01-29-83** **Date: 02-01-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"
Agency	:	Sri.G.Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK D/EPMT-5/W.O/173/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-12-20
Sample Type /Size	:	Precast Cover Slab (250mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	29/12/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	230.9	7.3	6.8	8.5
2	Cover Slab-2	200.49	250.52	3.122	31564	232.3	7.4	6.8	8.6
3	Cover Slab-3	200.50	250.51	3.118	31567	231.5	7.3	6.8	8.5

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-29-83 **Date: 31/12/2020**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : "Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"

Agency : Sri.G.Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-5/W.O/173/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-12-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/12/2020

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	24/12/2020	31/12/2020	151.24 X 149.74 X 150.68	22647	8.944	424.0	18.7	18.4
2	Drain Bottom Slab Concrete	M20	24/12/2020	31/12/2020	149.42 X 150.68 X 150.18	22514	8.418	410.2	18.2	
3	Drain Bottom Slab Concrete	M20	24/12/2020	31/12/2020	149.99 X 151.16 X 151.87	22673	8.716	416.3	18.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-01-29-83 **Date: 31/12/2020**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"
Agency	:	Sri.G.Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/173/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	31/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	24/12/2020	31/12/2020	150.90 X 149.80 X 151.63	22605	8.944	423.8	18.7	18.5
2	Drain Bottom Slab Concrete	M20	24/12/2020	31/12/2020	150.31 X 150.73 X 149.61	22657	8.418	408.6	18.0	
3	Drain Bottom Slab Concrete	M20	24/12/2020	31/12/2020	149.81 X 149.61 X 151.30	22414	8.716	421.8	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-29-83** **Date: 04/01/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"
Agency	:	Sri.G.Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W O/173/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	28/12/2020	04/01/2021	150.47 X 149.78 X 150.25	22538	8.944	409.3	18.2	18.6
2	Drain Side Wall Concrete	M20	28/12/2020	04/01/2021	151.49 X 151.85 X 150.76	23005	8.418	437.0	19.0	
3	Drain Side Wall Concrete	M20	28/12/2020	04/01/2021	149.57 X 149.33 X 149.79	22334	8.716	414.7	18.6	

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-29-83** **Date: 25/01/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"
Agency	:	Sri.G.Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W O/173/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	28/12/2020	25/01/2021	151.67 X 151.44 X 151.03	22969	8.900	536.5	23.4	23.0
2	Drain Side Wall Concrete	M20	28/12/2020	25/01/2021	151.72 X 151.92 X 150.89	23050	8.838	507.8	22.0	
3	Drain Side Wall Concrete	M20	28/12/2020	25/01/2021	149.74 X 151.17 X 149.17	22636	8.376	534.9	23.6	

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-01-29-83
		Date: 25/01/2021
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"
Agency	:	Sri.G.Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/173/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	28/12/2020	25/01/2021	150.65 X 150.95 X 149.16	22742	8.900	531.2	23.4	23.3
2	Drain Side Wall Concrete	M20	28/12/2020	25/01/2021	149.94 X 149.44 X 150.51	22407	8.838	511.7	22.8	
3	Drain Side Wall Concrete	M20	28/12/2020	25/01/2021	149.58 X 151.30 X 150.20	22631	8.376	536.8	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-29-83** **Date: 04/01/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"
Agency	:	Sri.G Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W O/173/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/01/2021

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	28/12/2020	04/01/2021	151.55 X 151.79 X 150.93	23004	8.944	434.7	18.9	18.6
2	Drain Side Wall Concrete	M20	28/12/2020	04/01/2021	150.27 X 150.76 X 149.79	22654	8.418	414.9	18.3	
3	Drain Side Wall Concrete	M20	28/12/2020	04/01/2021	150.04 X 150.84 X 150.88	22632	8.716	419.3	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-29-83

Date: 02/01/2021

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : "Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"

Agency : Sri.G.Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-5/W.O/173/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-20

Customer ID : Culvert Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	26/12/2020	02/01/2021	150.29 X 151.85 X 149.75	22821	8.944	428.5	18.8	18.6
2	Culvert Bottom Slab Concrete	M20	26/12/2020	02/01/2021	149.78 X 149.61 X 151.19	22410	8.418	409.1	18.3	
3	Culvert Bottom Slab Concrete	M20	26/12/2020	02/01/2021	149.11 X 151.31 X 149.88	22563	8.716	423.4	18.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/01/2021

Lab ID	:	CP-2021-01-29-83
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"
Agency	:	Sri.G.Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/173/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-12-20
Customer ID	:	Culvert Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5
Date of test	:	23/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Culvert Bottom Slab Concrete	M20	26/12/2020	23/01/2021	150.01 X 150.76 X 151.93	22615	8.900	539.1	23.8	23.4
2	Culvert Bottom Slab Concrete	M20	26/12/2020	23/01/2021	151.54 X 150.70 X 151.73	22837	8.838	515.5	22.6	
3	Culvert Bottom Slab Concrete	M20	26/12/2020	23/01/2021	150.57 X 149.75 X 151.47	22548	8.376	537.0	23.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-29-83** **Date: 27/01/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No.04"
Agency	:	Sri.G.Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/173/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-21
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	30/12/2020	27/01/2021	149.16 X 151.03 X 151.14	22527	8.900	522.0	23.2	23.0
2	Culvert Side Wall Concrete	M20	30/12/2020	27/01/2021	150.23 X 149.87 X 150.35	22516	8.838	509.0	22.6	
3	Culvert Side Wall Concrete	M20	30/12/2020	27/01/2021	149.67 X 150.44 X 149.04	22517	8.376	522.0	23.2	

* The results obtained are satisfactory as per standard requirements

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Certificate No.: TC-554

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID	:	CP-2021-01-29-83
		Date: 06/01/2021
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"
Agency	:	Sri.G.Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/173/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-21
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	30/12/2020	06/01/2021	149.44 X 151.91 X 149.42	22700	8.944	415.3	18.3	18.3
2	Culvert Side Wall Concrete	M20	30/12/2020	06/01/2021	150.77 X 151.79 X 149.10	22885	8.418	412.4	18.0	
3	Culvert Side Wall Concrete	M20	30/12/2020	06/01/2021	149.43 X 150.46 X 149.82	22482	8.716	417.1	18.6	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-10

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-01-29-83
		Date: 27/01/2021
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Construction of RCC Drain at 7th Cross 28th Cross, 29th Cross and 22nd A Main and Surrounding Areas in Ward No:04"
Agency	:	Sri.G.Venkate Gowda S/o Govindaraju, B3-11 2nd Floor, SFS 12th B Main Road, Omega Hospital, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-5/W.O/173/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-21
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	30/12/2020	27/01/2021	149.57 X 149.38 X 150.79	22342	8.900	525.4	23.5	23.2
2	Culvert Side Wall Concrete	M20	30/12/2020	27/01/2021	149.96 X 149.86 X 149.49	22473	8.838	512.5	22.8	
3	Culvert Side Wall Concrete	M20	30/12/2020	27/01/2021	151.07 X 149.43 X 151.29	22574	8.376	524.6	23.2	

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Quality Manager

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